

## Title (en)

5-Ring heterocycles as inhibitors of leukocyte adhesion and as VLA-4 antagonists

## Title (de)

5-Ring-Heterocyclen als Inhibitoren der Leukozytenadhäsion und VLA-4-Antagonisten

## Title (fr)

Hétérocycles à cinq chaînons à titre d'inhibiteurs d'adhésion des leucocytes et d'antagonistes de VLA-4

## Publication

**EP 0842943 A3 19990224 (DE)**

## Application

**EP 97119638 A 19971110**

## Priority

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## Abstract (en)

[origin: EP0842943A2] Use of N-substituted pyrrolidone, imidazolidinone, oxazolidinone or thiazolidinone derivatives of formula (I), in all stereoisomer (or mixture) forms, or their salts for inhibiting the adhesion and/or migration of leukocytes or inhibiting VLA-4 receptors is new. W = R1-A-CR13 or R1A-CH=C; Y = CO, CS or CH2; Z = O, S or CH2 etc.; A = 1-6C alkylene, 3-7C cycloalkylene, (1-6C) alkylene-phenylene, or the divalent residue of a 5- or 6-membered ring containing 1 or 2 N (optionally substituted); B = 1-6C alkylene (optionally substituted), 2-6C alkenylene, phenylene, phenylene-(1-3C) alkyl or (1-3C) alkylene-phenylene; D = CR2R3, NR3 or CH=CR3; E = tetrazolyl, SO3H etc.; R = H, alkyl, 3-8C cycloalkyl, Ar or Ar-alkyl; R1 = X-NH-C(=NH)-(CH2)p or X1-NH-(CH2)p; p = 0-3; X = H, 1-6C alkyl, (1-6C) alkylcarbonyl, Ar-(1-6C) alkoxy carbonyl, CN, OH, etc.; X1 = X etc.; R2 = H, alkyl, Ar, Ar-alkyl or 3-8C cycloalkyl; R3 = H, alkyl, Ar, alkenyl, alkynyl, pyridyl etc.; R13 = H, 1-6C alkyl, Ar-alkyl or 3-8C cycloalkyl; b, c, d, f = 0 or 1, but not all 0; e, g, h = 0-6; Ar = optionally substituted 6-14C aryl; unless specified otherwise alkyl moieties have 1-8C, alkenyl or alkynyl moieties 2-8C, cycloalkyl moieties 3-12C and bi- or tri-cycloalkyl moieties 6-12C.

## IPC 1-7

**C07K 5/023**; **C07K 5/097**; **C07K 5/117**; **C07K 14/78**; **A61K 38/06**; **A61K 38/07**; **A61K 38/39**

## IPC 8 full level

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## Citation (search report)

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